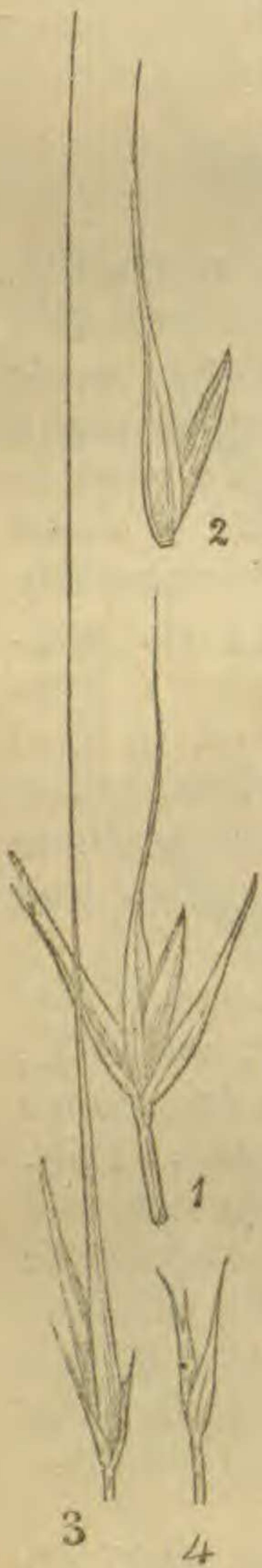


## Arizona Plants.

BY F. LAMSON SCRIBNER.

Botanists will be glad to learn that Mr. C. G. Pringle has returned safely from Southern Arizona, where he has been spending the past summer, to the "pure air and water of Vermont," and that, in spite of a severe illness, which prematurely closed his field labors, he has brought with him a large collection of plants. Owing to an unusual amount of rain in the Territory, all vegetable growth has been remarkably rich and varied, and he has been enabled to secure many novelties that have never before, or that have but rarely appeared in American collections. In the region explored we might reasonably expect that so acute an observer as Mr. Pringle would discover many new species, but we are truly surprised to learn of the recognition of *four new genera* among his collections from Sonora. Respecting the character of the specimens themselves, the name of their collector is a sufficient assurance of their superior excellence. Some of the grasses which will enter into the present distribution are named below. We may add here, that if the new acquisitions in this order afford any index to the discoveries in other families, the collection is valuable indeed, and the labors of Mr. Pringle surely deserve the thanks and hearty support of all botanists interested in acquiring a knowledge of the rich flora of our Western Territories.



*Cathestecum erectum*, V. & H., recently described and figured in the *Torrey Bulletin*. *Manisurus granularis*, Sw., *Trachypogon Montufari*, Nees., *Andropogon hirtiflorus*, Kth., *Aristida Scheidiana*, Trin. & Rupr., *Aristida*—near *A. fascicularis*, Torr., but not agreeing exactly with any of the forms previously collected, *Stipa fimbriata*, HBK. *Muehlenbergia Texana*, Thurb., *Muehlenbergia arenicola*, Buckl., which may be only a large form of *M. gracillima*, Torr., and, indeed, has been referred to that species, *Muehlenbergia monticola*, Buckl., *Muehlenbergia*



*depauperata*, n. sp.,\* *Trisetum interruptum*, Buckl., (= (?) *T. elongatum*, HBK.) *Bouteloua prostrata*, Lag. (*B. pusilla*, Vasey), *Scleropogon Karwinskyanus*, Benth., *Melica Porteri*, Scribn. (*M. mutica*, var. *parviflora*, Porter).

### New Species of Uredineæ.

BY T. J. BURRILL.

The plants described below are from large collections in Illinois of leaf-fungi, mostly made by A. B. Seymour for the Illinois State Laboratory of Natural History, Normal, Illinois. A paper upon the Uredineæ of Illinois, containing a fresh description of all the species so far observed in the State, is now ready for publication, and will be issued in a bulletin of the State Laboratory. Much care has been taken with the identification. While the writer holds himself responsible for the conclusions reached, he is glad to acknowledge the invaluable assistance of Mr. Seymour in the difficult sifting of names and types. Since the collections were made several species found to be new among them have been described by others.

#### UROMYCES GENOTHEREÆ.

I. Infected leaves somewhat involute or revolute; peridia irregularly scattered over both surfaces of the leaf, minute, short, roundish or slightly elongated.

\* *MUEHLENBERGIA DEPAUPERATA*, n. sp. — Annual. Cæspitose. Culms erect, branched below, 1-4 inches high. Sheaths inflated, prominently striate, with membranous margins. Ligule elongated, variously cleft. Leaves  $\frac{1}{2}$ -1 inch long, minutely hairy or scabrous on both sides, finely striate, margins a white, cartilagenous, scabrous line, point rigid, involute. Inflorescence simple, racemose, spikelets appressed to the angular rhachis, sessile or raised on short, stout pedicels. Empty glumes minutely scabrous, especially towards the point,  $1\frac{1}{2}$ -2 lin. long, the upper a little longer than the lower—the lower more or less cleft and terminating in two unequal points, the upper long-pointed, entire. Flowering glume, hardly as long as the empty ones, smooth or sparingly hairy below, terminating in an awn 1-3 lin. long.

Mr. Lemmon also collected this species in the Huachuca Mts.

In the allied *M. Schaffneri*, Fourn., the culms are usually taller, the empty glumes scarcely one-half the length of the flowering one, which is 2 lines long, and terminating in a very slender awn 6 to 7 lin. long.

#### EXPLANATION OF FIGURES.

1. Spikelet of *Muehlenbergia depauperata*.
2. Floret of *Muehlenbergia depauperata*.
3. Spikelet of *Muehlenbergia Schaffneri*.
4. Empty glumes of same. All enlarged to the same scale.